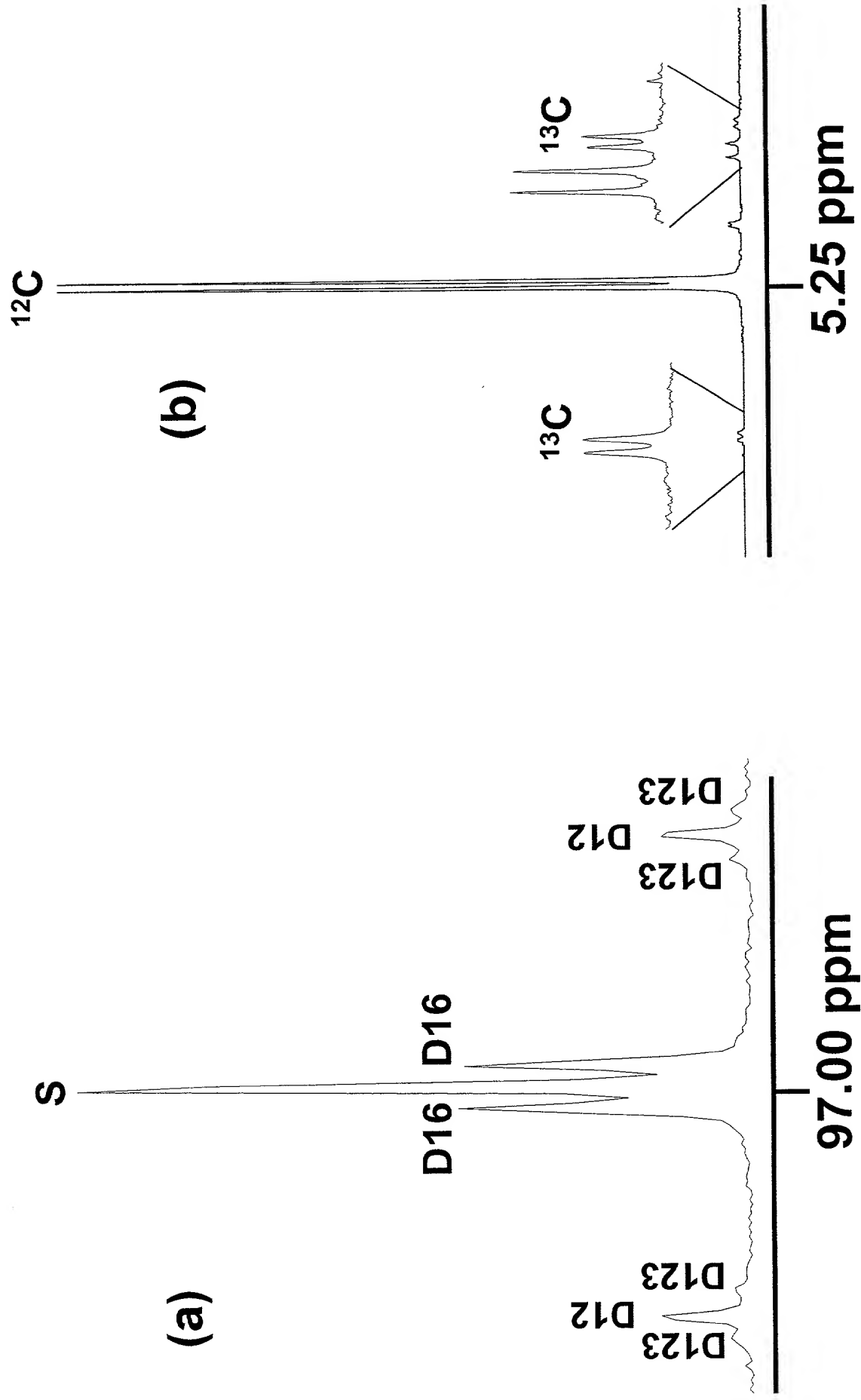


F151

Year	Population	Area	Population	Area	Population	Area	Population	Area
1900	1,000,000	100,000	1,000,000	100,000	1,000,000	100,000	1,000,000	100,000
1910	1,500,000	150,000	1,500,000	150,000	1,500,000	150,000	1,500,000	150,000
1920	2,000,000	200,000	2,000,000	200,000	2,000,000	200,000	2,000,000	200,000
1930	2,500,000	250,000	2,500,000	250,000	2,500,000	250,000	2,500,000	250,000
1940	3,000,000	300,000	3,000,000	300,000	3,000,000	300,000	3,000,000	300,000
1950	3,500,000	350,000	3,500,000	350,000	3,500,000	350,000	3,500,000	350,000
1960	4,000,000	400,000	4,000,000	400,000	4,000,000	400,000	4,000,000	400,000
1970	4,500,000	450,000	4,500,000	450,000	4,500,000	450,000	4,500,000	450,000
1980	5,000,000	500,000	5,000,000	500,000	5,000,000	500,000	5,000,000	500,000
1990	5,500,000	550,000	5,500,000	550,000	5,500,000	550,000	5,500,000	550,000
2000	6,000,000	600,000	6,000,000	600,000	6,000,000	600,000	6,000,000	600,000
2010	6,500,000	650,000	6,500,000	650,000	6,500,000	650,000	6,500,000	650,000
2020	7,000,000	700,000	7,000,000	700,000	7,000,000	700,000	7,000,000	700,000
2030	7,500,000	750,000	7,500,000	750,000	7,500,000	750,000	7,500,000	750,000
2040	8,000,000	800,000	8,000,000	800,000	8,000,000	800,000	8,000,000	800,000
2050	8,500,000	850,000	8,500,000	850,000	8,500,000	850,000	8,500,000	850,000
2060	9,000,000	900,000	9,000,000	900,000	9,000,000	900,000	9,000,000	900,000
2070	9,500,000	950,000	9,500,000	950,000	9,500,000	950,000	9,500,000	950,000
2080	10,000,000	1,000,000	10,000,000	1,000,000	10,000,000	1,000,000	10,000,000	1,000,000
2090	10,500,000	1,050,000	10,500,000	1,050,000	10,500,000	1,050,000	10,500,000	1,050,000
2100	11,000,000	1,100,000	11,000,000	1,100,000	11,000,000	1,100,000	11,000,000	1,100,000

Glucose C1 β

Glucose H1 α



517

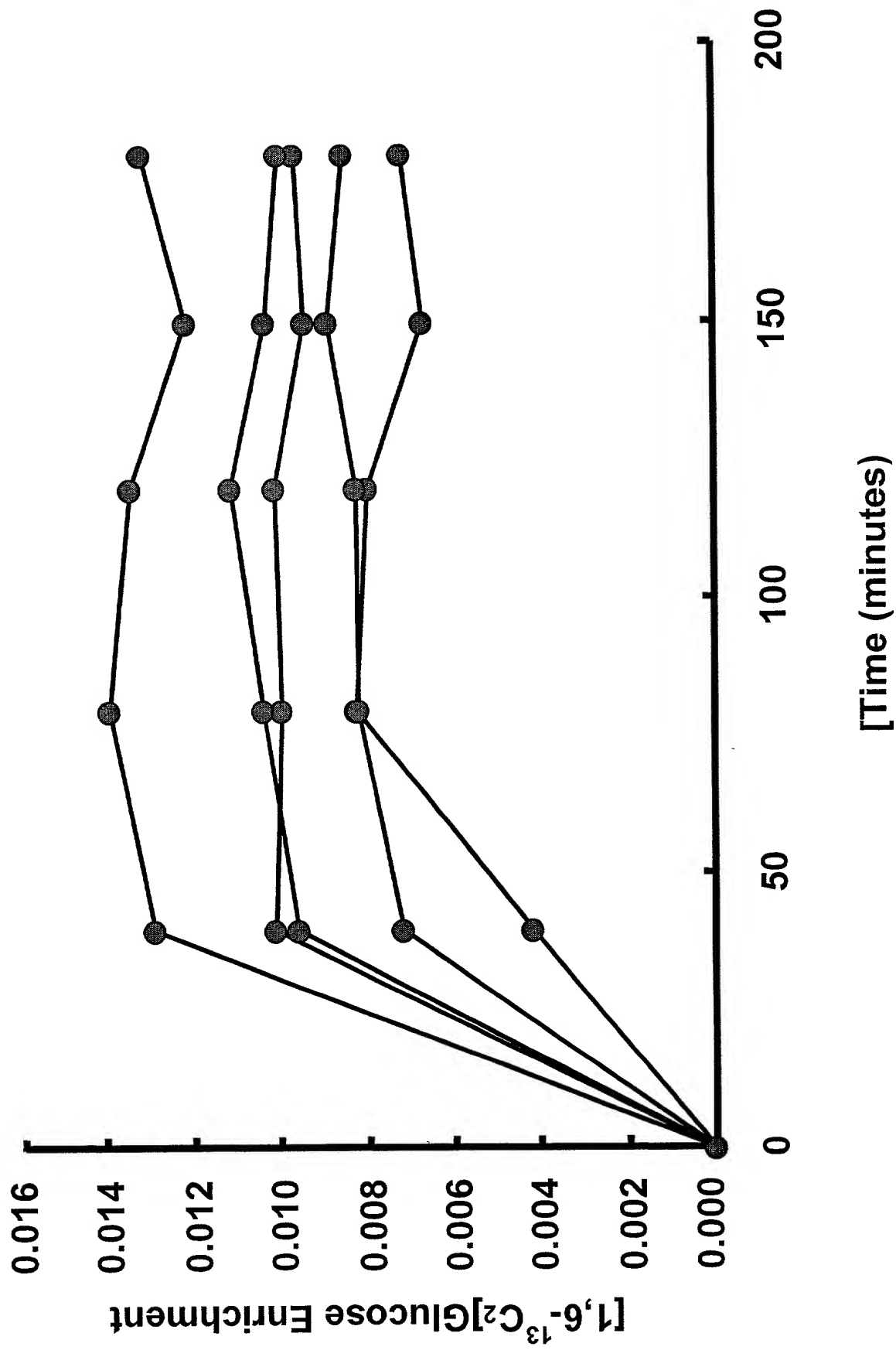
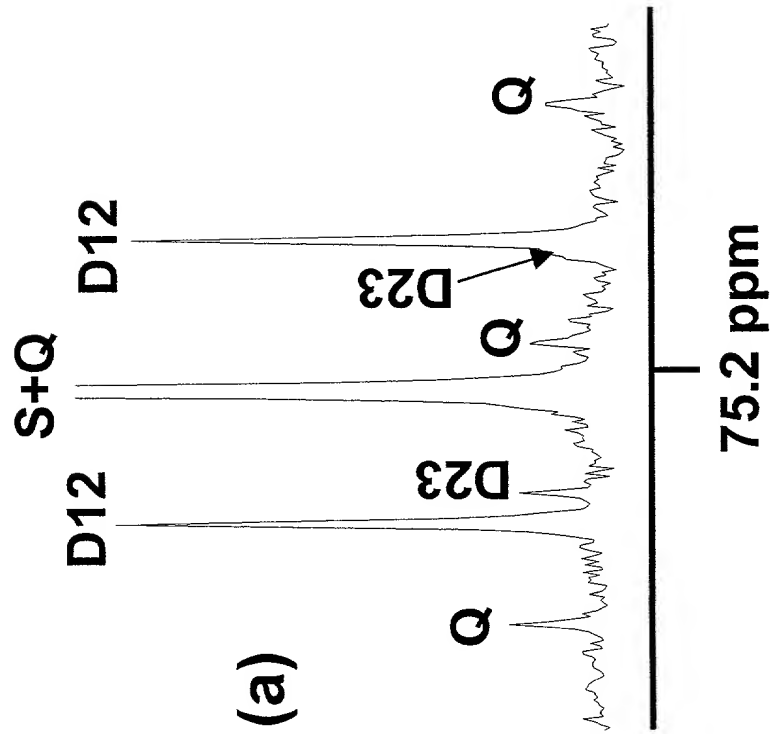
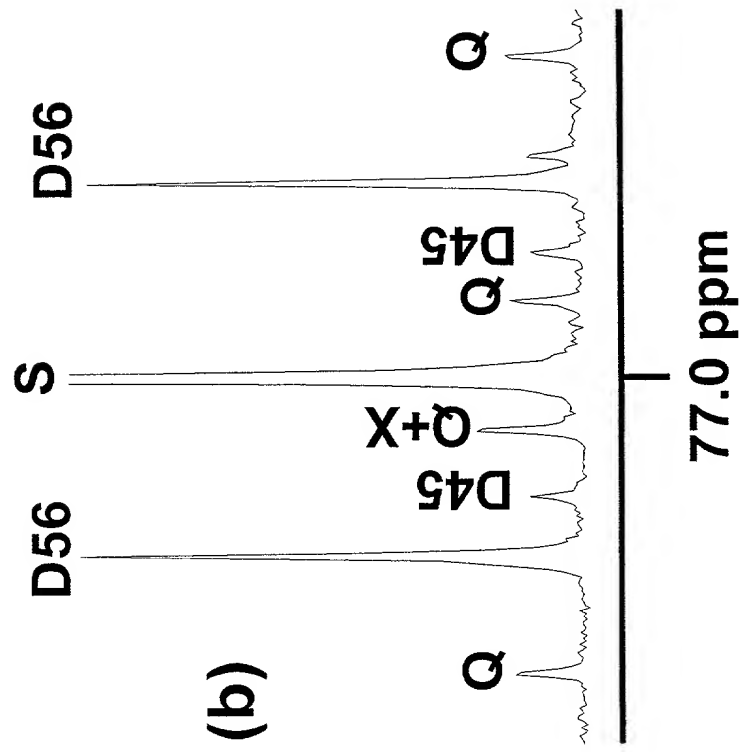


Fig 3

Glucose C2 β



Glucuronate C5 β



F13 4

100% 200 MHz

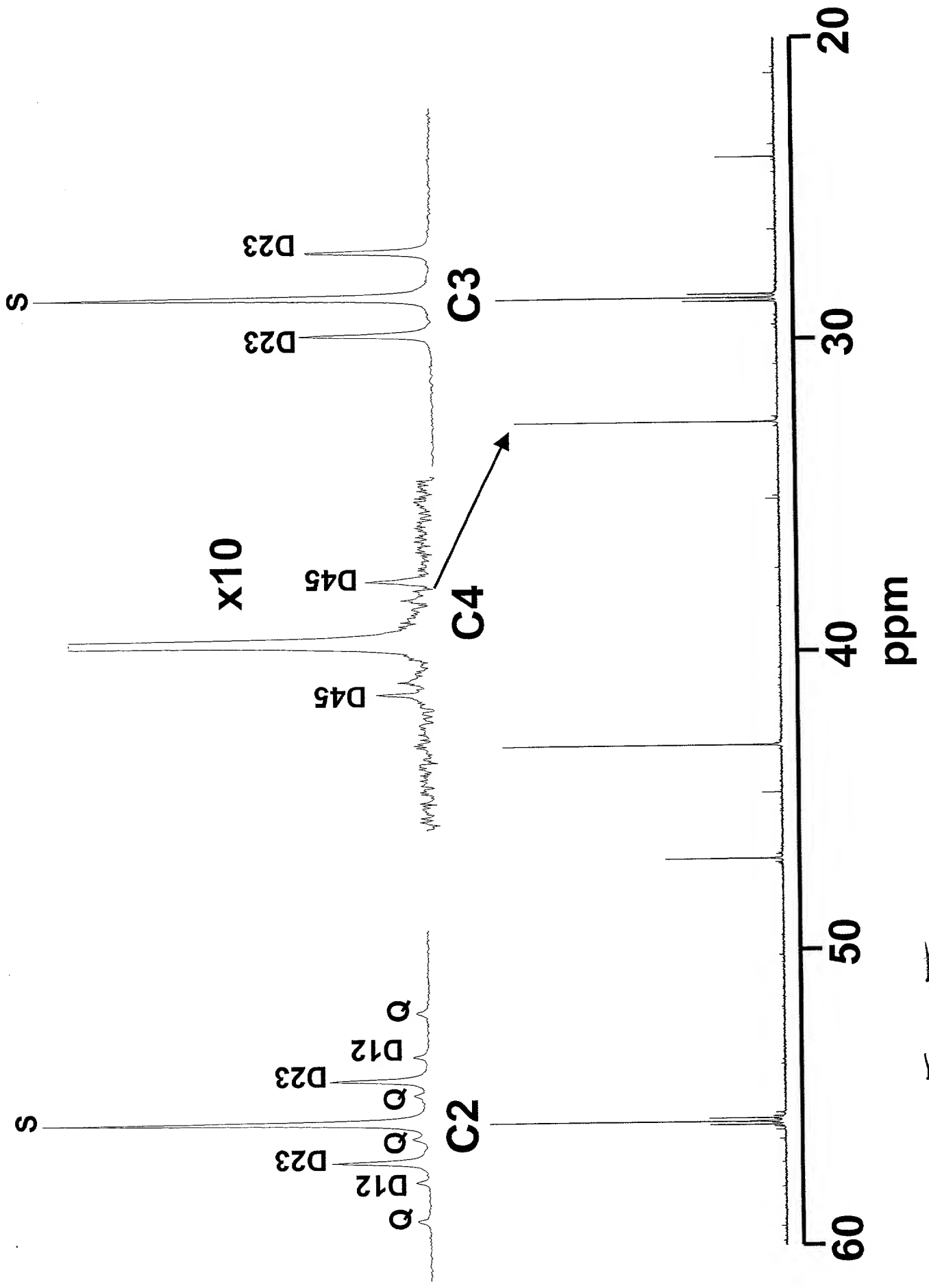
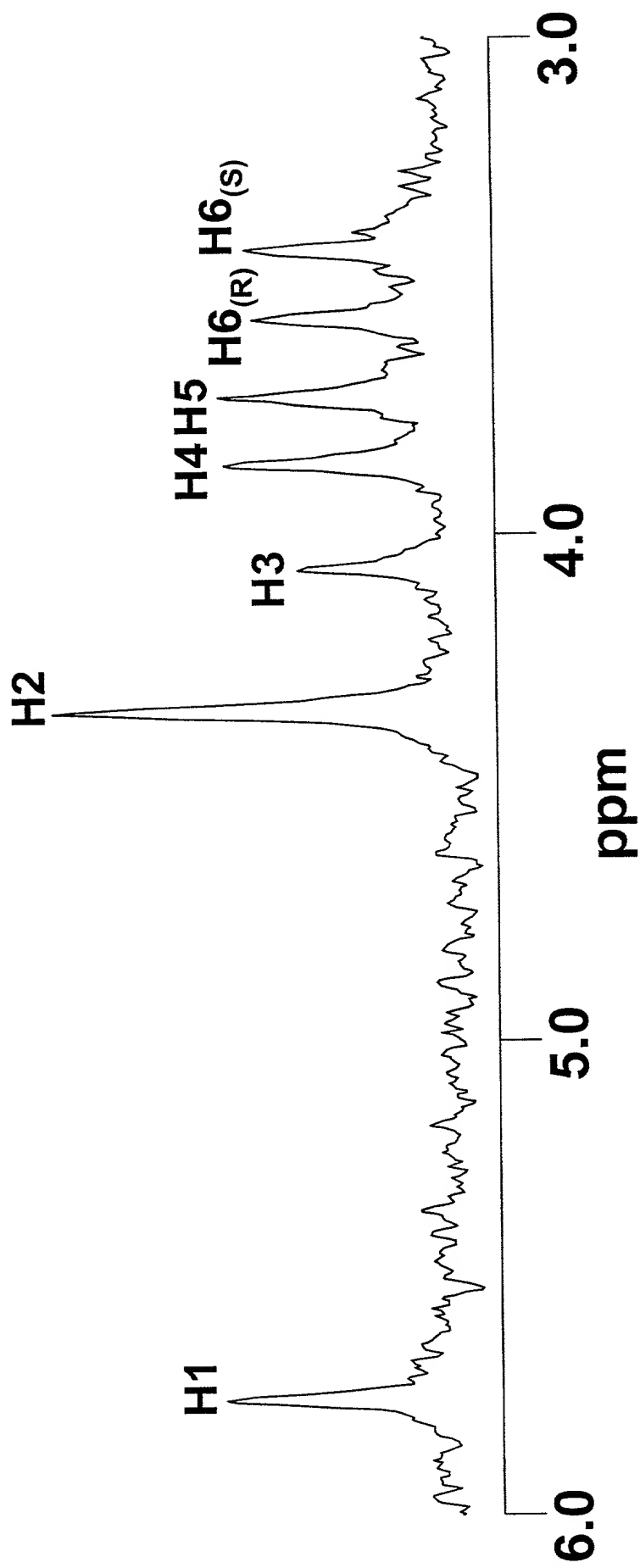


Fig 5

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



6
11-5

TOPOLOGY

Pyruvate

Oxaloacetate

PEP

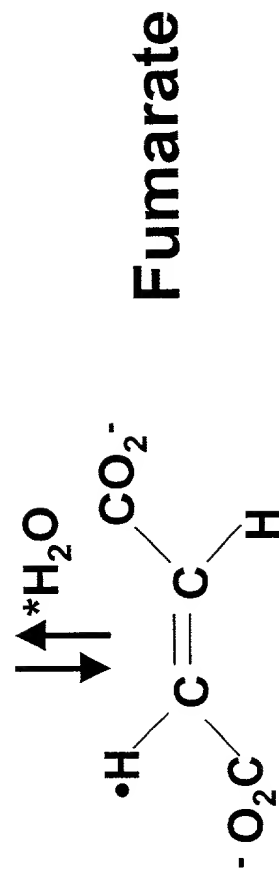
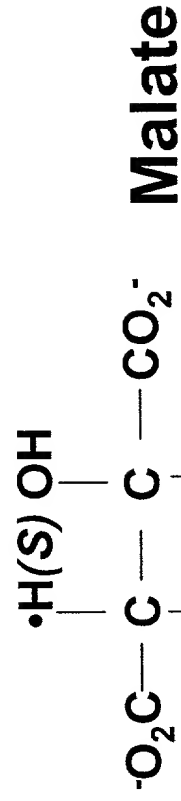
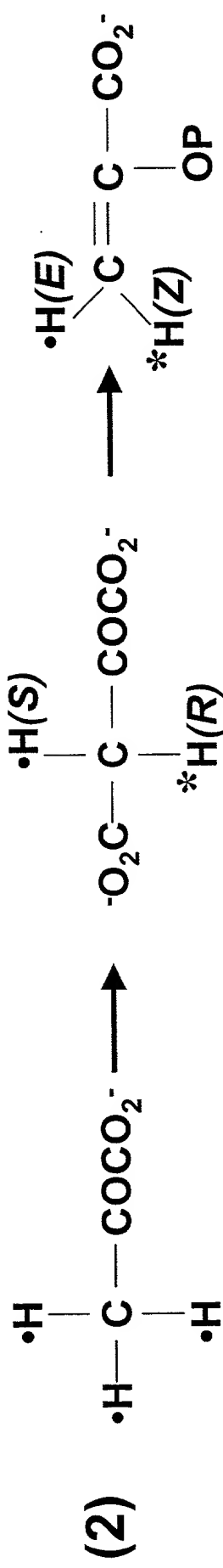
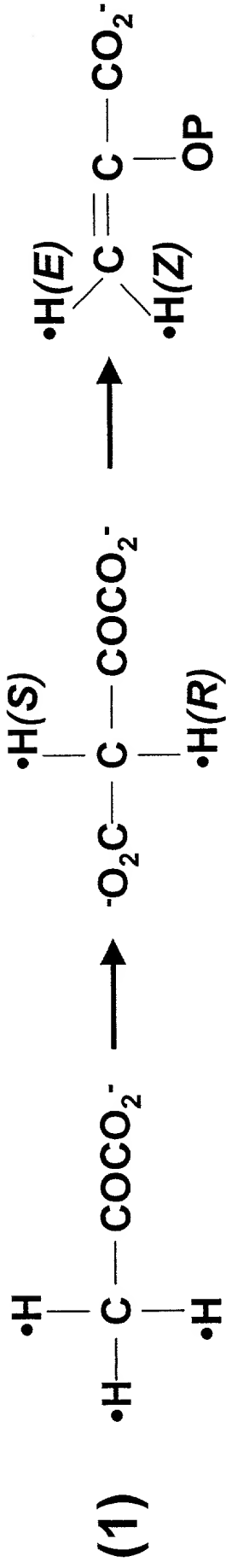


Fig 7